CIVIL PRO

AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

To,

Date: 18-12-2020

ASSISTANT EXECUTIVE ENGINEER

SHETTYHALLI SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/S. Civil Pro Services for the work of "IMPROVEMENTS TO CONCRETE ROADS IN GATEPALYA SHETTYHALLI IN WARD NO.12, SHETTYHALLI SUB DIVISION."

Ref: 1. Work Order No: EE/DD/WO/596/2019-20

2. Job code: 012-20-000039

We are here with forwarding to, M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010. First and Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs.74,99,634.28 /- (Rs. Seventy Four Lakhs Ninety Nine Thousand Six Hundred Thirty Four and Twenty Eight Paisa Only).

Thanking you,

Yours faithfully,

CIVIL Pro Sig..... Date..... BANGALORE

For Civil Pro

R. KARTHIK RECHAN

AUTHORIZED SIGNATORY

CIVIL PRO

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

QC ABSTRACT

NAME OF WORK: Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (I.e Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	PCC(M20)	Compressive Strength(7days and 28days)	1 set /1-5 cum	3	2	2
7	RCC (M25)	Compressive Strength(7days and 28days)	7 set /151-200 cum	158.36	14	14
8	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	11 set /350-400 cum	380.7	22	22
9	GSB	SIEVE ANALYSIS	One Test		1	1

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-03-13-20** **Date: 19-10-20**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	EE/DD/WO/596/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-10-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-10-20
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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FOR CIVIL Pro.

R KARTHIK RECHAN

Authorized Signatory

Quality Manager

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-03-13-20
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. **Date: 14-11-20**
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	EE/DD/WO/596/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-10-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	17-10-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-03-13-20** **Date: 19-10-20**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	EE/DD/WO/596/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	16-10-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-10-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-03-13-20** **Date: 19-10-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.41	_
5	Bulk Density(Compacted) (Kg/l)	1.47	_
6	Water Absorption(%)	0.23	_

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-03-13-20** **Date: 19-10-20**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010
Customer Reference	:	EE/DD/WO/596/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-10-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-10-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-03-13-20 Date: 19-10-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.21	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2021-03-13-20** **Date: 19-10-20**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	EE/DD/WO/596/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-10-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	16-10-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-03-13-20 Date: 19-10-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	-
2	Specific Gravity	2.59	-
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	CP-2021-03-13-20 **Date: 17-10-20**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12. Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	EE/DD/WO/596/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-10-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	16-10-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Quality Manager

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Format No CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/12/2020

Lab ID	:	**CP-2021-03-13-20**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	EE/DD/WO/596/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-12-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	16/12/2020	23/12/2020	149.87 X 149.99 X 149.22	22480	8.934	407.7	18.1	18.4
2	PCC	M20	16/12/2020	23/12/2020	150.15 X 150.51 X 151.64	22599	8.641	411.4	18.2	
3	PCC	M20	16/12/2020	23/12/2020	149.54 X 150.65 X 149.63	22529	8.753	427.1	19.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/01/2021

Lab ID	:	CP-2021-03-13-20
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	EE/DD/WO/596/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-12-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	16/12/2020	13/01/2021	149.12 X 151.90 X 150.43	22651	8.209	538.4	23.8	23.5
2	PCC	M20	16/12/2020	13/01/2021	149.48 X 151.84 X 149.38	22698	8.714	519.1	22.9	
3	PCC	M20	16/12/2020	13/01/2021	150.41 X 151.43 X 150.34	22776	8.662	542.7	23.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/11/2020

Lab ID	:	CP-2021-03-13-20
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	EE/DD/WO/596/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M25	30/10/2020	06/11/2020	149.24 X 149.64 X 151.53	22332	8.709	528.8	23.7	22.7
2	Drain Bottom Slab Concrete	M25	30/10/2020	06/11/2020	150.32 X 151.89 X 150.54	22831	8.849	503.4	22.0	
3	Drain Bottom Slab Concrete	M25	30/10/2020	06/11/2020	151.29 X 151.16 X 151.08	22869	8.184	513.7	22.5	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/11/2020

Lab ID	:	CP-2021-03-13-20
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	EE/DD/WO/596/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M25	30/10/2020	27/11/2020	150.41 X 149.84 X 150.18	22537	8.646	623.9	27.7	27.3
2	Drain Bottom Slab Concrete	M25	30/10/2020	27/11/2020	150.67 X 151.49 X 151.80	22824	8.641	598.6	26.2	
3	Drain Bottom Slab Concrete	M25	30/10/2020	27/11/2020	151.29 X 151.11 X 150.85	22861	8.582	642.1	28.1	

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-03-13-20

Date: 06/11/2020

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division

Agency : M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010

Customer's Reference : EE/DD/WO/596/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-11-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M25	30/10/2020	06/11/2020	149.59 X 149.04 X 151.34	22295	8.709	529.0	23.7	22.8
2	Drain Bottom Slab Concrete	M25	30/10/2020	06/11/2020	149.90 X 150.14 X 150.23	22506	8.849	508.2	22.6	
3	Drain Bottom Slab Concrete	M25	30/10/2020	06/11/2020	150.87 X 150.25 X 149.31	22668	8.184	500.7	22.1	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-03-13-20 **Date: 27/11/2020**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore

Address : Shettyhalli Sub Division, BBMP, Bangalore

Project Name : Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No 12, Shettyhalli Sub Division

Agency : M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block Rajajinagara, Bengaluru-560010

Customer's Reference : EE/DD/WO/596/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-11-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 27/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M25	30/10/2020	27/11/2020	150.12 X 150.22 X 149.26	22551	8.646	626.2	27.8	27.5
2	Drain Bottom Slab Concrete	M25	30/10/2020	27/11/2020	150.05 X 149.41 X 151.78	22419	8.641	600.8	26.8	
3	Drain Bottom Slab Concrete	M25	30/10/2020	27/11/2020	149.60 X 151.44 X 149.03	22636	8.582	636.1	28.1	

* The results obtained are satisfactory as per standard requirements

Note:

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All information furnished by Customer/Representative

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Page 1/1

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-20** **Date: 06/11/2020**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division

Agency : M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010

Customer's Reference : EE/DD/WO/596/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-11-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M25	30/10/2020	06/11/2020	150.63 X 150.44 X 150.02	22661	8.709	541.9	23.9	23.3
2	Drain Bottom Slab Concrete	M25	30/10/2020	06/11/2020	149.40 X 150.90 X 151.05	22544	8.849	517.6	23.0	
3	Drain Bottom Slab Concrete	M25	30/10/2020	06/11/2020	149.29 X 151.73 X 150.16	22651	8.184	518.2	22.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-20**

Date: 27/11/2020

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division

Agency : M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010

Customer's Reference : EE/DD/WO/596/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-11-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M25	30/10/2020	27/11/2020	150.20 X 150.70 X 150.16	22634	8.646	614.6	27.2	27.4
2	Drain Bottom Slab Concrete	M25	30/10/2020	27/11/2020	151.21 X 150.92 X 149.71	22821	8.641	610.8	26.8	
3	Drain Bottom Slab Concrete	M25	30/10/2020	27/11/2020	149.56 X 150.90 X 149.29	22569	8.582	639.2	28.3	

* The results obtained are satisfactory as per standard requirements

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Quality Manager

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಬಾಡಬಳ್ಳಿ ಪಂಚಾಯ್ತಿ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾ. ಕೆ
ಪಶ್ಚಿಮ ವಲಯ, ರಾಜರಾಜೇಶ್ವರಿನಗರ, ಬೆಂಗಳೂರು

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-03-13-20

Date: 09/11/2020

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division

Agency : M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010

Customer's Reference : EE/DD/WO/596/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-11-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 09/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M25	02/11/2020	09/11/2020	149.02 X 149.29 X 150.87	22248	8.709	523.6	23.5	22.9
2	Drain Side Wall Concrete	M25	02/11/2020	09/11/2020	151.28 X 150.31 X 151.84	22739	8.849	517.2	22.7	
3	Drain Side Wall Concrete	M25	02/11/2020	09/11/2020	151.51 X 150.04 X 151.49	22732	8.184	512.7	22.6	

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested

All information furnished by Customer/Representative

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No CP/TF/01

Lab ID : CP-2021-03-13-20

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Date: 30/11/2020

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division

Agency : M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010

Customer's Reference : EE/DD/WO/596/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-11-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M25	02/11/2020	30/11/2020	151.14 X 150.28 X 149 20	22713	8.646	613.5	27.0	27.2
2	Drain Side Wall Concrete	M25	02/11/2020	30/11/2020	150.33 X 151.01 X 150.65	22701	8.641	593.6	26.1	
3	Drain Side Wall Concrete	M25	02/11/2020	30/11/2020	151.94 X 149.80 X 151.30	22762	8.582	648.2	28.5	

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested

All information furnished by Customer/Representative

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬಿಬಿಎಂಪಿ, ರಸ್ತೆ, ಚರಂಡಿಪಾಲಿಕೆ, ಬೆಂಗಳೂರು.

****End of Report****

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Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-20** **Date: 09/11/2020**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division

Agency : M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010

Customer's Reference : EE/DD/WO/596/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-11-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M25	02/11/2020	09/11/2020	149.28 X 149.87 X 151.05	22372	8.709	522.5	23.4	22.7
2	Drain Side Wall Concrete	M25	02/11/2020	09/11/2020	151.88 X 150.96 X 149.87	22928	8.849	512.0	22.3	
3	Drain Side Wall Concrete	M25	02/11/2020	09/11/2020	151.34 X 150.21 X 149.47	22734	8.184	507.3	22.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative
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Quality Manager

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Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-03-13-20

Date: 30/11/2020

Customer : Assistant Executive Engineer. Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division

Agency : M/S Technical Manager (West), KRIDL,No280, 59th Cross, 17th C Main, Road, 3rd Y Block, Rajajinagara, Bengaluru-560010

Customer's Reference : EE/DD/WO/596/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-11-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M25	02/11/2020	30/11/2020	150.12 X 150.20 X 149.67	22548	8.646	609.5	27.0	27.6
2	Drain Side Wall Concrete	M25	02/11/2020	30/11/2020	150.49 X 149.76 X 149.52	22537	8.641	606.5	26.9	
3	Drain Side Wall Concrete	M25	02/11/2020	30/11/2020	149.39 X 151.60 X 149.46	22648	8.582	656.3	29.0	

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-13-20**

Date: 09/11/2020

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore

Project Name : Improvements to Concrete Roads in Getepalya Shettyhalli in Ward No 12, Shettyhalli Sub Division

Agency : M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010

Customer's Reference : EE/DD/WO/596/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-11-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M25	02/11/2020	09/11/2020	150.93 X 150.00 X 149.60	22640	8.709	521.2	23.0	22.6
2	Drain Side Wall Concrete	M25	02/11/2020	09/11/2020	149.76 X 151.76 X 151.74	22727	8.849	501.7	22.1	
3	Drain Side Wall Concrete	M25	02/11/2020	09/11/2020	149.40 X 151.47 X 150.07	22629	8.184	510.6	22.6	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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